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Auth Cs. USAF

#### \*USAF Declass/Release Instructions On File\*

REVISED DRAFT

9 March 1951

Review of this document by CIA has determined that

MOE-39

NIE-30: SOVIET CAPABILITIES TO INTERFERE WITH US DESCRIPTION of CIA interest that must remain

OF ATOMIC WEAPONS TO TARGETS IN THE USSR\*

classified at TS S C Authority: HR 70-2

Date Maria Reviewer Land Revie

Air Force. warming the MSR of the decision to Ranch an attack to simplementation of warming the Reference because the plane are airlown 2. Even through A very high priority seems to have been given to the

task of creating defenses against an American atomic offensive, and we believe that The Soviet Union has been partially successful in overcoming the major problems posed by the great geographic expanse to be protected, the communications load which an effective air defense system involves, the limited capabilities of the Soviet electronics industry, the relatively low level of Soviet technical maintenance, and the training requirements for a vast defense network.

- 3. Reliable information as to the state of Soviet defensive capabilities is extremely limited, but on the basis of admittedly inadecuate data, the following estimates are considered reasonable:
- a. The Soviet Union possesses some 2,500 jet fighters in operational units, approximately half of which are assigned to defense regiments. Although

<sup>\*</sup>This estimate assumes the political decision to use atomic weapons will have been made, so does not consider possible Soviet political and propaganda moves intended to prevent such a decision.

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these would be excellent day interceptor aircraft, the U. S. S. R. at present public is handfcapped pateriolly in the bomber interception field by law of effective ground control interception raders and efficient all-weather interceptor aircraft. The Soviets have large numbers of anti-aircraft guns, and air operations up to 25,000 feet, using tactics similar to those employed during World War II, probably would encounter effective fire from antiaircraft artillery. Less effective fire would be encountered at altitudes above 25,000 feet, but continuously pointed fire should not be expected above 30,000 feet.

b. A send all-weather interceptor may be introduced in 1952 and

technical difficulties with ground control interception radars could be
largely overcome by that time, By 1952 the Seviet Union should have remember

the first from the first from the provide a moderately effective fighter

defense system, but me still having limited capabilities in bad weather and

against bombers operating at altitudes as high as 40,000 feet. Interest the still factor of the seems probable that the Soviet Union, appreciating the

importance of air defense, will have pressed on with the development of a

supersonic surface-to-air guided missile on similar lines to the German

Wasserfall. It is thought that this will not be developed satisfactorily

before the end of 1952. By the end of 1954, assuming no serious difficulties,

the missile might be developed for military use with pilot production

completed.

German type sub-sonic missiles could be available to the Soviet
Union for limited surface-to-air use as early as 1951. However, such missiles
would be relatively ineffective against modern bombers.

f. It may be within Soviet capabilities to develop an effective supersonic air-to-air missile by 1954, but no knowledge of Soviet activities in this respect is available.

The Soviet Union is capable now of producing improved versions of the German Taifun-type supersonic antiaircraft rockets which were designed to be effective against aircraft at altitudes up to at least 50,000 feet.

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Although there is little fectual evidence that such production has commenced. the weapon is a logical choice for the Soviet Union because of ease of manufacture, operational mobility and minimized electronic requirements. Operationally significant quantities could be available for employment about one year after the decision to manufacture this weapon had been made. The effectiveness of Taifun would be reduced about 50 per cent if radar directors could be jammed. It is believed that the ground radar at present available to the Soviet Union is vulnerable to jamming.

- 3 %. The Soviet Union has and will continue to have the capability in aircraft and trained crews to enable it to launch against North America and the United Kingdom the full stockpile of atomic bombs that are and will become available. In the next few years the strategic bombing capability of the Soviet Long Range Air Force will increase substantially, particularly in view of the growing atomic bomb stockpile and the increasing numbers of conventional medium bombers. Further improvement in effectiveness of the Soviet Long Range Force may be anticipated with expected introduction of jet medium bombers in 1952 and possibly heavy bombers in 1953, although the problems connected with high speed bombing and navigation probably will not be fully solved by the Soviets by that time.
- 5. In view of the threat which an American atomic offensive would pose to the security of the Soviet Union in the event of major hostilities, it should be expected that blunting this atomic offensive at the source -- before it could be laurched -- would be a high priority task of the Soviet Union. If surprise could be achieved, this probably would warrant expenditure of at least a portion of the stockpile of Soviet atomic bombs against Strategic Air Command bases or comparable targets, in the United States and against overseas bases which cannot be reached by Soviet light bombers or neutralized by Communist saboteurs.
- 6. The progress now being made in the intelligence field and with the radar warning screen reduces to a reasonable degree the chances that the Soviet Union would achieve the complete surprise in air attacks against the United States that it would wish.

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- 7. Tightened security precautions and steadily improving U. S. counter-intelligence capabilities are strengthening protection against clandestine attack and sabotage. Continued tightening of security measures will enhance the likelihood that this threat to U. S. security can be controlled.
- 8. Even if Soviet air defenses proved to be more effective than current estimates would indicate, we believe that the Soviet Union is not presently capable of preventing accomplishment of the objectives of the planned U. S. atomic offensive. Assuming a continued American effort in this field, the ability of the United States to improve its capabilities for delivery of atomic weapons to targets within the U.S.S.R. can reasonably be expected to keep pace with anticipated improvements in Soviet defensive capabilities.

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NIE-30: SOVIET CAPABILITIES TO INTERFERE WITH US DELIVERY \$ 53254

OF ATOMIC WEAPONS TO TARGETS IN THE USSR\*

- by U. S. forces to targets within the Soviet Union depend upon the effectiveness of two major Soviet military organizations the Anti-Air Defense Force
  and the Long Rarge Air Force and, to a lesser extent, upon the effectiveness
  of para-military Communist activities outside the Soviet Union. The Anti-Air
  Defense organization, which includes interceptor aircraft units, anti-aircraft
  forces and the early warning organization, would be responsible for attacks
  on U. S. bombers once they penetrate Soviet-controlled territory. The Soviet
  Union would make a determined effort to blunt the American atomic attack by
  sabotage and subversion at Strategic Air Command bases, bomb storage ites,
  and other comparable targets before and while the United States is lateraling in the state of the state against Soviet targets. This Communist underground is a state of the supplemented if necessary with air attacks by the Soviet Long Range in the state of the supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with air attacks by the Soviet Long Range is a supplemented if necessary with a supplemented if necessar
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- b. A good all-weather interceptor may be introduced in 1952 and technical difficulties with ground control interception radars could be largely overcome by that time. By 1952 the Soviet Union should have reached a state of equipment sufficient to provide a moderately effective fighter defense system, but one still having limited capabilities in bad weather and against bombers operating at altitudes as high as 40,000 feet.
- c. It seems probable that the Soviet Union, appreciating the importance of air defense, will have pressed on with the development of a supersonic surface-to-air guided missile on similar lines to the German Wasserfall. It is thought that this will not be developed satisfactorily before the end of 1952. By the end of 1954, assuming no serious difficulties, the missile might be developed for military use with pilot production completed.
- d. German type sub-sonic missiles could be available to the Soviet Union for limited surface-to-air use as early as 1951. However, such missiles would be relatively ineffective against modern bombers.
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